

CLAIMS

1. Mechanical part comprising a body (2) intended to receive at least one seal lining (3, 40) in plastic material, characterized in that the body (2) comprises at least one detachable member (10, 42) defining, at least in part, an impression (11, 44) for over-moulding lining (3,40) in plastic material.

2. Mechanical part according to claim 1, characterized in that impression (11,44) is intended to mould a functional sealing surface for lining (3, 40).

3. Mechanical part according to claim 2, characterized in that the impression (11, 44) is intended to mould a dynamic sealing surface for lining (3, 40).

4. Mechanical part according to any of claims 1 to 3 characterized in that the detachable member (10, 42) is joined to body (2) by at least one scored zone of lesser resistance (15, 43).

5. Mechanical part according to any of claims 1 to 3, characterized in that the detachable member (10, 42) is added to body (2).

6. Mechanical part according to any of claims 1 to 5, characterized in that the body (2) has a cavity (4) intended for the over-moulding of lining (3) inside the body and in that the detachable member (10) is arranged in relation to this cavity.

7. Mechanical part according to claim 6, characterized in that the detachable member (10) is arranged, at least in part, inside cavity (4).

8. Mechanical part according to any of claims 1 to 5, characterized in that the body (2) has a peripheral groove (41) intended for the over-moulding of lining (40) around body

(2) and in that the detachable member (42) is arranged or adapted in relation to this groove (41).

9. Mechanical part according to any of claims 1 to 8, characterized in that the detachable member (10, 42) comprises  
5 at least two parts joined to one another via a zone (16, 43<sub>2</sub>) of lesser resistance.

10. Mechanical part according to any of claims 1 to 9, characterized in that the body (2) has at least one channel (30, 47) for the injection of plastic material forming the  
10 lining (3, 40).

11. Mechanical part according to any of claims 1 to 10, characterized in that is is made in plastic material.

12. Mechanical part according to any of claims 1 to 11, characterized in that the body (2) and detachable member (10,  
15 42) form a single-piece assembly.

13. Method for manufacturing a mechanical part comprising a body (2) fitted with at least one seal lining (3, 40) in plastic material characterized in that it comprises the following steps:

- 20 - making the body (2) of the part so that it comprises at least one detachable member (10, 42) defining, at least in part, an impression (11, 44) for over-moulding lining (3),
- placing body (2) as central core in a mould (25, 45),
- 25 - closing the mould,
- injecting plastic material to mould lining (3, 40) onto the body,
- opening the mould,
- releasing from the mould the mechanical part comprising  
30 the body (2) and its lining (3, 40),
- detaching the detachable member (10, 42) from the body.

14. Manufacturing method according to claim 13, characterized in that it consists of ensuring the moulding of

a functional sealing surface of lining (3, 40) by means of impression (11, 44) defined by the detachable member.

15 15. Manufacturing method according to claim 14, characterized in that it consists of ensuring the moulding of a dynamic sealing surface of lining (3, 40) by means of impression (11, 44).

10 16. Manufacturing method according to any of claims 13 to 15, characterized in that it consists of making body (2) and detachable member (10, 32) such that the detachable member is joined to body (2) by at least one zone of lesser resistance (15, 43<sub>1</sub>) and of detaching the detachable member (10, 42) by breaking this zone of lesser resistance.

15 17. Manufacturing method according to any of claims 13 to 15, characterized in that it consists of adding the detachable member (10, 42) to body (2) before said body (20) is placed in mould (25, 45).

18. Manufacturing method according to any of claims 13 to 17, characterized in that it consists of:

- 20 - making a cavity (4), in body (2) of the part, to over-mould lining (3),
- arranging or adapting the detachable member (10) in relation to this cavity,
- over-moulding lining (3) inside this cavity.

25 19. Manufacturing method according to any of claims 13 to 17, characterized in that it consists of:

- making a groove (41) on the periphery of body(2) to over-mould lining (3),
- arranging or adapting detachable member (42) in relation to this groove,
- 30 - and over-moulding the lining around body (2).

20. Manufacturing method according to any of claims 13 to 19, characterized in that it consists of making at least one injection channel (30, 47) in the body of the part.

21. Manufacturing method according to any of claims 13 to 20, characterized in that it consists of dividing the detachable member (10, 42) into at least two parts joined by at least one zone of lesser resistance (16, 43<sub>2</sub>).

5        22. Manufacturing method according to an of claims 13 to 21, characterized in that it consists of making body (2° of the part in injected plastic material.

10        23. Manufacturing method according to any of claims 13 to 18, characterized in that it consists of making lining (3, 40) in elastomer.

24. Mechanical part obtained with the manufacturing method according to any of claims 13 to 23.

15        25. Mechanical part according to claim 24, characterized in that it comprises at least one over-moulded lining (3, 40) in elastomer.